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L7	8836	expert$1 adj systems	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/01 13:40
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L9	33	706/49.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/01 13:44

L10	33	L9	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/01 13:44
L11	382	(6 xor 9) (6 and 9)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/01 13:45
L12	4908	blackboard$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/01 13:45
L13	52	7 with 12	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/12/01 13:46
L14	0	("13and@ad<=20000616").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/01 13:47
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Youssef, S.A.; Habib, I.W.; Saadawi, T.N.;
Communications, 1996. ICC 96, Conference Record, Converging Technologies Tomorrow's Applications. 1996 IEEE International Conference on , Volume: 1 27 June 1996
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1 Consensus in a multi-expert system
Keung-Chi Ng, Bruce Abramson
January 1990 **Proceedings of the 1990 ACM annual conference on Cooperation**
Full text available: pdf(739.73 KB) Additional Information: full citation, abstract, references, citings, index terms

Most existing expert systems contain a single rule base. Any extension of this model to group decision-making must account for the possibility of conflicting rules encoded by different group members. The inability to reconcile conflicts, however, is one of the most clearly established shortcomings of rule-based knowledge representations [4] [11]. Thus, multi-expert rule-bases are likely to be inelegant and confusing at best, incorrect and useless at worst. The creation of advisory systems w ...

2 Mining IC test data to optimize VLSI testing
Tony Fountain, Thomas Dietterich, Bill Sudyka
August 2000 **Proceedings of the sixth ACM SIGKDD international conference on Knowledge discovery and data mining**
Full text available: pdf(144.13 KB) Additional Information: full citation, references, index terms

Keywords: EM algorithm, IC test, belief networks, decision theory, real-time control, unsupervised learning

3 Fuzzy logic, neural networks, and soft computing
Lotfi A. Zadeh
March 1994 **Communications of the ACM**, Volume 37 Issue 3
Full text available: pdf(2.17 MB) Additional Information: full citation, references, citings, index terms, review

4 An introduction to intelligent operating system KZ2
Li Xie, Xing Du, Jun Chen, Yuhua Zheng, Zhongxiu Sun
January 1995 **ACM SIGOPS Operating Systems Review**, Volume 29 Issue 1
Full text available: pdf(1.21 MB) Additional Information: full citation, abstract, index terms

This paper proposes an intelligent operating system, KZ2, which is a new generation OS to

manage the resources of massively parallel computing systems, to provide a friendly human-computer interface, and control the execution of programs based on knowledge processing and parallel processing. A knowledge based demonstrative example is also described in the paper to show how KZ2 improves the functions and performance of existing operating systems.

5 Task response time optimization using cost-based operation motion

Bassam Tabbara, Abdallah Tabbara, Alberto Sangiovanni-Vincentelli

May 2000 **Proceedings of the eighth international workshop on Hardware/software codesign**

Full text available: pdf(2.91 MB) Additional Information: full citation, abstract, references, index terms

We present a technique for task response time improvement based on the concept of code motion from the software domain. Relaxed Operation Motion (ROM) is a simple yet powerful approach for performing safe and useful operation motion from heavily executed portions of a design task to less visited segments. We introduce here our algorithm, how it differs from other code motion approaches, and its application to the embedded systems domain. Results of our investigation indicate that cost-guide ...

Keywords: (cost-based) code motion, optimization, response time

6 Switch directed dynamic causal networks---a paradigm for electronic system diagnosis

R. M. McDermott, D. Stern

October 1987 **Proceedings of the 24th ACM/IEEE conference on Design automation**

Full text available: pdf(713.53 KB) Additional Information: full citation, abstract, references, index terms

Electronic Systems Diagnosis, be it at the Device, Board, or System level, is a complex and time consuming task. Various techniques have been developed to provide design aids to the maintenance technician, each with its own successes and limitations, typically in terms of performance versus complexity issues. This paper demonstrates a novel integration of such techniques to provide for an effective and efficient approach to expert diagnosis of complex systems. The integration of ...

7 Applications of qualitative modeling to knowledge-based risk assessment studies

Gautam Biswas, Kenneth A. Debelak, Kazuhiko Kawamura

June 1989 **Proceedings of the second international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 1**

Full text available: pdf(729.63 KB) Additional Information: full citation, abstract, references, citings, index terms

Risk assessment of technological processes (chemical and power plants, electro-mechanical systems) is a complex process that requires enumeration of all possible failure modes, their probability of occurrence, and their consequences. Traditionally such studies have been performed by a committee of expert engineers with diverse backgrounds. This paper discusses the use of qualitative modeling techniques based on deriving behavior from structural descriptions and causal reasoning to aid autom ...

8 Indexing hypertext documents in context

Guy A. Boy

September 1991 **Proceedings of the third annual ACM conference on Hypertext**

Full text available: pdf(901.26 KB) Additional Information: full citation, references, citings, index terms

9 General applications and methodology: General applications 1: a simulation architecture with distributed controllers for cell-based manufacturing systems
Hansoo Kim, SugJe Sohn, Ying Wang, Tolga Tezcan, Leon McGinnis, Chen Zhou
December 2002 **Proceedings of the 34th conference on Winter simulation: exploring new frontiers**
Full text available: pdf(257.19 KB) Additional Information: full citation, abstract, references

A number of manufacturing systems are categorized into Cell-Based Manufacturing Systems (CBMSs), which have similar physical configurations typically composed of manufacturing cells, transporters and their controllers. However, since the control modules are not separable from the model in conventional simulation frameworks, it is difficult to develop a generic high-fidelity simulator for CBMSs with flexibility in control structure.

We propose a generic simulation architecture for CBMSs ...

10 PI-PD-Controller for Robust and Adaptive Queue Management for Supporting TCP Congestion Control
Seungwan Ryu, Chulhyoe Cho
April 2004 **Proceedings of the 37th annual symposium on Simulation**
Full text available: pdf(399.40 KB) Publisher Site Additional Information: full citation, abstract

In this paper, we propose the proportional-integral (PI)-proportional-derivative (PD) controller mechanism, which can provide robust and predictive congestion avoidance andcontrol using an adaptive congestion indicator and a controlfunction. PI-PD controller is designed by approximatingthe PID feedback control to take advantages of excellentcapabilities of a PID feedback control mechanism in predictingand controlling future error as well as eliminatingthe steady-state error. With PI-PD controlle ...

11 Reusable motion synthesis using state-space controllers
Michiel van de Panne, Eugene Fiume, Zvonko Vranesic
September 1990 **ACM SIGGRAPH Computer Graphics , Proceedings of the 17th annual conference on Computer graphics and interactive techniques**, Volume 24 Issue 4
Full text available: pdf(2.66 MB) Additional Information: full citation, abstract, references, citings, index terms

The use of physically-based techniques for computer animation can result in realistic object motion. The price paid for physically-based motion synthesis lies in increased computation and information requirements.$_1$ We introduce a new approach to realistic motion specification based on state-space controllers. A user specifies a motion by defining a goal in terms of a set of destination states. A state-space controller is then constructed, which provides an optimal-control solution tha ...

12 Resource controller tasks in ADA: Their structure and semantics
Krithivasan Ramamritham
March 1984 **Proceedings of the 7th international conference on Software engineering**
Full text available: pdf(778.82 KB) Additional Information: full citation, abstract, references, index terms

The focus of this paper is on the processes that control access to shared resources in concurrent systems. Processes that access a shared resource send access requests to the controller of the shared resource which in turn services requests based on such criteria as the conditions enabling the requests, the fairness specified, etc. In this paper we examine the structure of resource controllers, in particular, we show how resource controllers manifest themse ...

Keywords: Ada2, Concurrent systems, Shared resources, Synchronization, Temporal Semantics, Verification

13 Composable controllers for physics-based character animation

Petros Faloutsos, Michiel van de Panne, Demetri Terzopoulos

August 2001 **Proceedings of the 28th annual conference on Computer graphics and interactive techniques**

Full text available: pdf(2.04 MB) Additional Information: full citation, abstract, references, citings, index terms

An ambitious goal in the area of physics-based computer animation is the creation of virtual actors that autonomously synthesize realistic human motions and possess a broad repertoire of lifelike motor skills. To this end, the control of dynamic, anthropomorphic figures subject to gravity and contact forces remains a difficult open problem. We propose a framework for composing controllers in order to enhance the motor abilities of such figures. A key contribution of our composition framework ...

Keywords: character animation, computer animation, physics-based animation control, physics-based modeling

14 Integrated test of interacting controllers and datapaths

Mehrdad Nourani, Joan Carletta, Christos Papachristou

July 2001 **ACM Transactions on Design Automation of Electronic Systems (TODAES)**, Volume 6 Issue 3

Full text available: pdf(410.32 KB) Additional Information: full citation, abstract, references, index terms

In systems consisting of interacting datapaths and controllers and utilizing built-in self test (BIST), the datapaths and controllers are traditionally tested separately by isolating each component from the environment of the system during test. This work facilitates the testing of datapath/controller pairs in an integrated fashion. The key to the approach is the addition of logic to the system that interacts with the existing controller to push the effects of controller f ...

Keywords: built-in self-test, register transfer level, synthesis-for-testability

15 A predictive self-tuning fuzzy-logic feedback rate controller

Rose Qingyang Hu, David W. Petr

December 2000 **IEEE/ACM Transactions on Networking (TON)**, Volume 8 Issue 6

Full text available: pdf(281.19 KB) Additional Information: full citation, references

Keywords: adaptive control, asynchronous transfer mode, computer network performance, feedback systems, fuzzy control, predictive control, traffic control

16 Detecting undetectable controller faults using power analysis

J. Carletta, C. A. Papachristou, M. Nourani

January 2000 **Proceedings of the conference on Design, automation and test in Europe**

Full text available: pdf(120.16 KB) Publisher Site Additional Information: full citation, references, index terms

17 Synthesis-for-iestability of controlier-datapath pairs that use gated clocks
Mehrdad Nourani, Joan Carletta, Christos Papachristou
June 2000 **Proceedings of the 37th conference on Design automation**
Full text available: pdf(94.74 KB) Additional Information: full citation, abstract, references, index terms

A method for high level synthesis-for-testability of controller-datapath pairs that use gated clocks is developed. It uses a register allocation technique that improves the observability of the controller through the datapath, and takes advantage of the unique testability properties of one-hot-encoded controllers. The resulting controller can be fully tested without isolating it from the system. Area, fault coverage, and power consumption are reported for three example circuits.

18 A control-theoretic approach to the design of an explicit rate controller for ABR service
Aleksandar Kolarov, G. Ramamurthy
October 1999 **IEEE/ACM Transactions on Networking (TON)**, Volume 7 Issue 5
Full text available: pdf(308.28 KB) Additional Information: full citation, references, citings, index terms

Keywords: ABR service, ATM networks, feedback control, flow control

19 Simulation environments for the design and test of an intelligent controller for autonomous underwater vehicles
Michael W. Roeckel, Robert H. Rivoir, Ronald E. Gibson, Stephen P. Linder
December 1999 **Proceedings of the 31st conference on Winter simulation: Simulation---a bridge to the future - Volume 2**
Full text available: pdf(57.24 KB) Additional Information: full citation, references, index terms

20 Controller synthesis for the "production cell" case study
Helmut Melcher, Klaus Winkelmann
March 1998 **Proceedings of the second workshop on Formal methods in software practice**
Full text available: pdf(1.25 MB) Additional Information: full citation, references, index terms

Keywords: Case Study Production Cell, controller, specification, synchronity, synthesis

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1 Consensus in a multi-expert system
Keung-Chi Ng, Bruce Abramson
January 1990 **Proceedings of the 1990 ACM annual conference on Cooperation**
Full text available: pdf(739.73 KB) Additional Information: full citation, abstract, references, citings, index terms

Most existing expert systems contain a single rule base. Any extension of this model to group decision-making must account for the possibility of conflicting rules encoded by different group members. The inability to reconcile conflicts, however, is one of the most clearly established shortcomings of rule-based knowledge representations [4] [11]. Thus, multi-expert rule-bases are likely to be inelegant and confusing at best, incorrect and useless at worst. The creation of advisory systems w ...

2 Mining IC test data to optimize VLSI testing
Tony Fountain, Thomas Dietterich, Bill Sudyka
August 2000 **Proceedings of the sixth ACM SIGKDD international conference on Knowledge discovery and data mining**
Full text available: pdf(144.13 KB) Additional Information: full citation, references, index terms

Keywords: EM algorithm, IC test, belief networks, decision theory, real-time control, unsupervised learning

3 Special issue on ICML: Lyapunov design for safe reinforcement learning
Theodore J. Perkins, Andrew G. Barto
March 2003 **The Journal of Machine Learning Research**, Volume 3
Full text available: pdf(246.11 KB) Additional Information: full citation, abstract, index terms

Lyapunov design methods are used widely in control engineering to design controllers that achieve qualitative objectives, such as stabilizing a system or maintaining a system's state in a desired operating range. We propose a method for constructing safe, reliable reinforcement learning agents based on Lyapunov design principles. In our approach, an agent learns to control a system by switching among a number of given, base-level controllers. These controllers are designed using Lyapunov domain ...

4 Netman: a learning network traffic controller

Bernard Silver
June 1990 **Proceedings of the third international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 2**
Full text available: pdf(963.64 KB) Additional Information: full citation, abstract, references, index terms

One of the goals of Machine Learning is the production of software that can improve itself. Such software can learn from experience and adapt to changing situations and requirements. In addition, such software can refine its knowledge-base, perhaps leading to a level of expertise beyond that of human experts. This paper describes NETMAN, a knowledge-based program that uses a machine learning technique, Knowledge-based Learning, in the domain of Network Traffic Co ...

5 A QoS-Provisioning neural fuzzy connection admission controller for multimedia high-speed networks
Ray-Guang Cheng, Chung-Ju Chang, Li-Fong Lin
February 1999 **IEEE/ACM Transactions on Networking (TON)**, Volume 7 Issue 1
Full text available: pdf(342.90 KB) Additional Information: full citation, references, citings, index terms

6 Learning behavior-selection by emotions and cognition in a multi-goal robot task
Sandra Clara Gadanho
December 2003 **The Journal of Machine Learning Research**, Volume 4
Full text available: pdf(592.69 KB) Additional Information: full citation, abstract, index terms

The existence of emotion and cognition as two interacting systems, both with important roles in decision-making, has been recently advocated by neurophysiological research (LeDoux, 1998, Damasio, 1994. Following that idea, this paper presents the ALEC agent architecture which has both emotive and cognitive learning, as well as emotive and cognitive decision-making capabilities to adapt to real-world environments. These two learning mechanisms embody very different properties which can be related ...

7 Learning belief networks from data: an information theory based approach
Jie Cheng, David A. Bell, Weiru Liu
January 1997 **Proceedings of the sixth international conference on Information and knowledge management**
Full text available: pdf(1.00 MB) Additional Information: full citation, references, citings, index terms

8 Special issue on the fusion of domain knowledge with data for decision support: Fusion of domain knowledge with data for structural learning in object oriented domains
Helge Langseth, Thomas D. Nielsen
December 2003 **The Journal of Machine Learning Research**, Volume 4
Full text available: pdf(227.18 KB) Additional Information: full citation, abstract, index terms

When constructing a Bayesian network, it can be advantageous to employ structural learning algorithms to combine knowledge captured in databases with prior information provided by domain experts. Unfortunately, conventional learning algorithms do not easily incorporate prior information, if this information is too vague to be encoded as properties that are local to families of variables. For instance, conventional algorithms do not exploit prior information about repetitive structures, which are ...

9 Fast detection of communication patterns in distributed executions
Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

10 Learning with mixtures of trees

Marina Meila, Michael I. Jordan

September 2001 **The Journal of Machine Learning Research**, Volume 1

Full text available: pdf(400.02 KB) Additional Information: full citation, abstract

This paper describes the mixtures-of-trees model, a probabilistic model for discrete multidimensional domains. Mixtures-of-trees generalize the probabilistic trees of Chow and Liu (1968) in a different and complementary direction to that of Bayesian networks. We present efficient algorithms for learning mixtures-of-trees models in maximum likelihood and Bayesian frameworks. We also discuss additional efficiencies that can be obtained when data are "sparse," and we present data structures and alg ...

11 ε-mdps: learning in varying environments

István Szita, Bálint Takács, András Lörincz

March 2003 **The Journal of Machine Learning Research**, Volume 3

Full text available: pdf(330.74 KB) Additional Information: full citation, abstract, references, index terms

In this paper ε-MDP-models are introduced and convergence theorems are proven using the generalized MDP framework of Szepesvari and Littman. Using this model family, we show that Q-learning is capable of finding near-optimal policies in varying environments. The potential of this new family of MDP models is illustrated via a reinforcement learning algorithm called *event-learning* which separates the optimization of decision making from the controller. We show that event-learning au ...

Keywords: ε-MDP, MDP, SARSA, SDS controller, convergence, event-learning, generalized MDP, reinforcement learning

12 Multi Relational Data Mining (MRDM): Probabilistic logic learning

Luc De Raedt, Kristian Kersting

July 2003 **ACM SIGKDD Explorations Newsletter**, Volume 5 Issue 1

Full text available: pdf(1.98 MB) Additional Information: full citation, abstract, references, citings

The past few years have witnessed an significant interest in probabilistic logic learning, i.e. in research lying at the intersection of probabilistic reasoning, logical representations, and machine learning. A rich variety of different formalisms and learning techniques have been developed. This paper provides an introductory survey and overview of the state-of-the-art in probabilistic logic learning through the identification of a number of important probabilistic, logical and learning concept ...

Keywords: data mining, inductive logic programming, machine learning, multi-relational data mining, probabilistic reasoning, uncertainty

13 Incremental learning of linear model trees

Duncan Potts
July 2004 **Twenty-first international conference on Machine learning**

Full text available: pdf(184.10 KB) Additional Information: full citation, abstract, references

A linear model tree is a decision tree with a linear functional model in each leaf. Previous model tree induction algorithms have operated on the entire training set, however there are many situations when an incremental learner is advantageous. In this paper we demonstrate that model trees can be induced incrementally using an algorithm that scales linearly with the number of examples. An incremental node splitting rule is presented, together with incremental methods for stopping the growth of ...

14 On inclusion-driven learning of bayesian networks
Robert Castelo, Tomáas Kocka
December 2003 **The Journal of Machine Learning Research**, Volume 4

Full text available: pdf(980.59 KB) Additional Information: full citation, abstract, index terms

Two or more Bayesian network structures are Markov equivalent when the corresponding acyclic digraphs encode the same set of conditional independencies. Therefore, the search space of Bayesian network structures may be organized in equivalence classes, where each of them represents a different set of conditional independencies. The collection of sets of conditional independencies obeys a partial order, the so-called "inclusion order." This paper discusses in depth the role that the inclusion ord ...

15 Learning equivalence classes of bayesian-network structures
David Maxwell Chickering
March 2002 **The Journal of Machine Learning Research**, Volume 2

Full text available: pdf(442.83 KB) Additional Information: full citation, abstract, references, citings, index terms

Two Bayesian-network structures are said to be equivalent if the set of distributions that can be represented with one of those structures is identical to the set of distributions that can be represented with the other. Many scoring criteria that are used to learn Bayesian-network structures from data are score equivalent; that is, these criteria do not distinguish among networks that are equivalent. In this paper, we consider using a score equivalent ...

16 A statistical approach to decision tree modeling
Michael I. Jordan
July 1994 **Proceedings of the seventh annual conference on Computational learning theory**

Full text available: pdf(785.78 KB) Additional Information: full citation, abstract, references, citings, index terms

A statistical approach to decision tree modeling is described. In this approach, each decision in the tree is modeled parametrically as is the process by which an output is generated from an input and a sequence of decisions. The resulting model yields a likelihood measure of goodness of fit, allowing ML and MAP estimation techniques to be utilized. An efficient algorithm is presented to estimate the parameters in the tree. The model selection problem is presented and several alternative pr ...

17 Tractable learning of large Bayes net structures from sparse data
Anna Goldenberg, Andrew Moore
July 2004 **Twenty-first international conference on Machine learning**

Full text available: pdf(127.86 KB) Additional Information: full citation, abstract, references

This paper addresses three questions. Is it useful to attempt to learn a Bayesian network structure with hundreds of thousands of nodes? How should such structure search proceed

practically? The third question arises out of our approach to the second: how can Frequent Sets (Agrawal et al., 1993), which are extremely popular in the area of descriptive data mining, be turned into a probabilistic model?Large sparse datasets with hundreds of thousands of records and attributes appear in social netwo ...

Keywords: Bayes Net structure learning, Bayesian networks/graphical models, statistical learning

18 Efficient reasoning



Russell Greiner, Christian Darken, N. Iwan Santoso
March 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 1

Full text available: pdf(445.41 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Many tasks require "reasoning"—i.e., deriving conclusions from a corpus of explicitly stored information—to solve their range of problems. An ideal reasoning system would produce all-and-only the correct answers to every possible query, produce answers that are as specific as possible, be expressive enough to permit any possible fact to be stored and any possible query to be asked, and be (time) efficient
Keywords: efficiency trade-offs, soundness/completeness/expressibility

19 Adaptive cooperative fuzzy logic controller



Justin Ammerlaan, David Wright
January 2004 **Proceedings of the 27th conference on Australasian computer science - Volume 26**

Full text available: pdf(324.34 KB) Additional Information: full citation, abstract, references

Fuzzy logic is a natural basis for modelling and solving problems involving imprecise knowledge and continuous systems. Unfortunately, fuzzy logic systems are invariably static (once created they do not change) and subjective (the creator imparts their beliefs on the system). In this paper we address the question of whether systems based on fuzzy logic can effectively adapt themselves to dynamic situations.To answer this question, we firstly design and implement an adaptive fuzzy logic agent for ...

20 Research track posters: k-TTP: a new privacy model for large-scale distributed environments



Bobi Gilburd, Assaf Schuster, Ran Wolff
August 2004 **Proceedings of the 2004 ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available: pdf(182.08 KB) Additional Information: full citation, abstract, references, index terms

Secure multiparty computation allows parties to jointly compute a function of their private inputs without revealing anything but the output. Theoretical results [2] provide a general construction of such protocols for any function. Protocols obtained in this way are, however, inefficient, and thus, practically speaking, useless when a large number of participants are involved.The contribution of this paper is to define a new privacy model -- k-privacy -- by means of an innovative, yet natural g ...

Keywords: association rule mining, data mining, distributed data mining, privacy, privacy-preserving data mining, security

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1 A prototype belief network-based expert systems shell
Shijie Wang, Marco Valtorta
June 1990 **Proceedings of the third international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 1**
Full text available: pdf(1.03 MB) Additional Information: full citation, abstract, references, citings, index terms

A belief network-based expert system works in a way entirely different from a rule-based expert system. In such systems, a high degree of non-determinism is present in the process of belief propagation. Existing belief network-based systems thus provide no control mechanism and let their users make decisions at every stage in the process of evidence gathering and belief propagation. However, for any real world expert system with large complex belief network, it is important to have efficien ...

2 On the conversion of rule bases into belief networks
Shijie Wang, Marco Valtorta
April 1992 **Proceedings of the 1992 ACM/SIGAPP Symposium on Applied computing: technological challenges of the 1990's**
Full text available: pdf(697.06 KB) Additional Information: full citation, references, citings, index terms

3 A belief network model for IR
Berthier A. N. Ribeiro, Richard Muntz
August 1996 **Proceedings of the 19th annual international ACM SIGIR conference on Research and development in information retrieval**
Full text available: pdf(845.14 KB) Additional Information: full citation, references, citings, index terms

4 Belief networks in construction simulation
Brenda McCabe
December 1998 **Proceedings of the 30th conference on Winter simulation**
Full text available: pdf(104.82 KB) Additional Information: full citation, references, citings, index terms

5 Link-based and content-based evidential information in a belief network model
Ilmério Silva, Berthier Ribeiro-Neto, Pável Calado, Edleno Moura, Nívio Ziviani
July 2000 **Proceedings of the 23rd annual international ACM SIGIR conference on Research and development in information retrieval**
Full text available: pdf(854.30 KB) Additional Information: full citation, abstract, references, citings, index terms

This work presents an information retrieval model developed to deal with hyperlinked environments. The model is based on belief networks and provides a framework for combining information extracted from the content of the documents with information derived from cross-references among the documents. The information extracted from the content of the documents is based on statistics regarding the keywords in the collection and is one of the basis for traditional information retrieval (IR) rankin ...

Keywords: IR models, content-based retrieval, exploiting hyperlinked structure

6 Learning belief networks from data: an information theory based approach
Jie Cheng, David A. Bell, Weiru Liu
January 1997 **Proceedings of the sixth international conference on Information and knowledge management**
Full text available: pdf(1.00 MB) Additional Information: full citation, references, citings, index terms

7 Statistical inference of unknown attribute values in databases
Wen-Chi Hou, Zhongyang Zhang, Nong Zhou
December 1993 **Proceedings of the second international conference on Information and knowledge management**
Full text available: pdf(919.56 KB) Additional Information: full citation, references, citings, index terms

8 Session: Collocation map for overcoming data sparseness
Moonjoo Kim, Young S. Han, Key-Sun Choi
March 1995 **Proceedings of the seventh conference on European chapter of the Association for Computational Linguistics**
Full text available: pdf(385.57 KB) Publisher Site Additional Information: full citation, abstract, references

Statistical language models are useful because they can provide probabilistic information upon uncertain decision making. The most common statistic is *n*-grams measuring word cooccurrences in texts. The method suffers from data shortage problem, however. In this paper, we suggest Bayesian networks be used in approximating the statistics of insufficient occurrences and of those that do not occur in the sample texts with graceful degradation. Collocation map is a sigmoid belief network that ...

9 Efficient reasoning
Russell Greiner, Christian Darken, N. Iwan Santoso
March 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 1
Full text available: pdf(445.41 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Many tasks require "reasoning"—i.e., deriving conclusions from a corpus of explicitly stored information—to solve their range of problems. An ideal reasoning system would produce all-and-only the correct answers to every possible query, produce answers that are as specific as possible, be expressive enough to permit any possible fact to be stored and any possible

query to be asked, and be (time) efficient
Keywords: efficiency trade-offs, soundness/completeness/expressibility

10 COGENT: cognitive agent to amplify human perception and cognition
Subrata Das, Dan Grecu
June 2000 **Proceedings of the fourth international conference on Autonomous agents**
Full text available: pdf(1.06 MB) Additional Information: full citation, references, index terms

Keywords: cognitive agent, decision aiding, event generation, information filtering, situation assessment, visualization

11 Special issue on the fusion of domain knowledge with data for decision support: Fusion of domain knowledge with data for structural learning in object oriented domains
Helge Langseth, Thomas D. Nielsen
December 2003 **The Journal of Machine Learning Research**, Volume 4
Full text available: pdf(227.18 KB) Additional Information: full citation, abstract, index terms

When constructing a Bayesian network, it can be advantageous to employ structural learning algorithms to combine knowledge captured in databases with prior information provided by domain experts. Unfortunately, conventional learning algorithms do not easily incorporate prior information, if this information is too vague to be encoded as properties that are local to families of variables. For instance, conventional algorithms do not exploit prior information about repetitive structures, which are ...

12 Learning with mixtures of trees
Marina Meila, Michael I. Jordan
September 2001 **The Journal of Machine Learning Research**, Volume 1
Full text available: pdf(400.02 KB) Additional Information: full citation, abstract

This paper describes the mixtures-of-trees model, a probabilistic model for discrete multidimensional domains. Mixtures-of-trees generalize the probabilistic trees of Chow and Liu (1968) in a different and complementary direction to that of Bayesian networks. We present efficient algorithms for learning mixtures-of-trees models in maximum likelihood and Bayesian frameworks. We also discuss additional efficiencies that can be obtained when data are "sparse," and we present data structures and alg ...

13 Research sessions: query optimization: CORDS: automatic discovery of correlations and soft functional dependencies
Ihab F. Ilyas, Volker Markl, Peter Haas, Paul Brown, Ashraf Aboulnaga
June 2004 **Proceedings of the 2004 ACM SIGMOD international conference on Management of data**
Full text available: pdf(559.35 KB) Additional Information: full citation, abstract, references

The rich dependency structure found in the columns of real-world relational databases can be exploited to great advantage, but can also cause query optimizers---which usually assume that columns are statistically independent---to underestimate the selectivities of conjunctive predicates by orders of magnitude. We introduce CORDS, an efficient and scalable tool for automatic discovery of correlations and soft functional dependencies between columns. CORDS searches for column pairs that might have ...

14
Word sense disambiguation of adjectives using probabilistic networks

Gerald Chao, Michael G. Dyer
July 2000 **Proceedings of the 17th conference on Computational linguistics - Volume 1**

Full text available: pdf(715.26 KB) Additional Information: full citation, abstract, references

In this paper, word sense disambiguation (WSD) accuracy achievable by a probabilistic classifier, using very minimal training sets, is investigated. We made the assumption that there are *no* tagged corpora available and identified what information, needed by an accurate WSD system, can and cannot be automatically obtained. The lesson learned can then be used to focus on what knowledge needs manual annotation. Our system, named Bayesian Hierarchical Disambiguator (BHD), uses the Internet, a ...

15 Mini-buckets: A general scheme for bounded inference
Rina Dechter, Irina Rish
March 2003 **Journal of the ACM (JACM)**, Volume 50 Issue 2

Full text available: pdf(902.27 KB) Additional Information: full citation, abstract, references, citings, index terms

This article presents a class of approximation algorithms that extend the idea of bounded-complexity inference, inspired by successful constraint propagation algorithms, to probabilistic inference and combinatorial optimization. The idea is to bound the dimensionality of dependencies created by inference algorithms. This yields a parameterized scheme, called *mini-buckets*, that offers adjustable trade-off between accuracy and efficiency. The mini-bucket approach to optimization problems, s ...

Keywords: Accuracy/complexity trade-off, Bayesian networks, approximation algorithms, combinatorial optimization, probabilistic inference.

16 Context-specific Bayesian clustering for gene expression data
Yoseph Barash, Nir Friedman
April 2001 **Proceedings of the fifth annual international conference on Computational biology**

Full text available: pdf(233.32 KB) Additional Information: full citation, abstract, references, citings, index terms

The recent growth in genomic data and measurement of genome-wide expression patterns allows to examine gene regulation by transcription factors using computational tools. In this work, we present a class of mathematical models that help in understanding the connections between transcription factors and functional classes of genes based on genetic and genomic data. These models represent the joint distribution of transcription factor binding sites and of expression levels of a gene in a single ...

17 Local versus global link information in the Web
Pável Calado, Berthier Ribeiro-Neto, Nivio Ziviani, Edleno Moura, Ilmério Silva
January 2003 **ACM Transactions on Information Systems (TOIS)**, Volume 21 Issue 1

Full text available: pdf(413.06 KB) Additional Information: full citation, abstract, references, citings, index terms

Information derived from the cross-references among the documents in a hyperlinked environment, usually referred to as link information, is considered important since it can be used to effectively improve document retrieval. Depending on the retrieval strategy, link information can be local or global. Local link information is derived from the set of documents returned as answers to the current user query. Global link information is derived from all the documents in the collection. In th ...

Keywords: Belief networks, World Wide Web, link analysis, local and global information

18 Multi Relational Data Mining (MRDM): Probabilistic logic learning
Luc De Raedt, Kristian Kersting
July 2003 **ACM SIGKDD Explorations Newsletter**, Volume 5 Issue 1

Full text available: pdf(1.98 MB) Additional Information: full citation, abstract, references, citings

The past few years have witnessed an significant interest in probabilistic logic learning, i.e. in research lying at the intersection of probabilistic reasoning, logical representations, and machine learning. A rich variety of different formalisms and learning techniques have been developed. This paper provides an introductory survey and overview of the state-of-the-art in probabilistic logic learning through the identification of a number of important probabilistic, logical and learning concept ...

Keywords: data mining, inductive logic programming, machine learning, multi-relational data mining, probabilistic reasoning, uncertainty

19 Bayesian analysis for simulation input and output
Stephen E. Chick
December 1997 **Proceedings of the 29th conference on Winter simulation**

Full text available: pdf(858.19 KB) Additional Information: full citation, references, citings, index terms

20 Dialogue act modeling for automatic tagging and recognition of conversational speech
Andreas Stolcke, Noah Coccaro, Rebecca Bates, Paul Taylor, Carol Van Ess-Dykema, Klaus Ries, Elizabeth Shriberg, Daniel Jurafsky, Rachel Martin, Marie Meteer
September 2000 **Computational Linguistics**, Volume 26 Issue 3

Full text available: pdf(2.53 MB) Publisher Site Additional Information: full citation, abstract, references, citings

We describe a statistical approach for modeling dialogue acts in conversational speech, i.e., speech-act-like units such as STATEMENT, QUESTION, BACKCHANNEL, AGREEMENT, DISAGREEMENT, and APOLOGY. Our model detects and predicts dialogue acts based on lexical, collocational, and prosodic cues, as well as on the discourse coherence of the dialogue act sequence. The dialogue model is based on treating the discourse structure of a conversation as a hidden ...

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